

Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>		Docket Number (Optional) <b>3592.10US (97-0321.10/US)</b>		Application Number <del>Not yet assigned</del> <b>10792244</b>	
Applicant <b>David R. Hembree</b>		Filing Date <b>March 3, 2004</b>		Group Art Unit <del>Unknown</del> <b>283</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	4,024,570	05/1977	Hartmann et al.			
	4,059,467	11/1977	Mancke et al.			
	4,059,708	11/1977	Heiss, Jr. et al.			
	4,081,825	03/1978	Koopman et al.			
	4,143,456	03/1979	Inoue			
	4,264,917	04/1981	Ugon			
	4,300,153	11/1981	Hayakawa et al.			
	4,323,914	04/1982	Berndmaier et al.			
	4,358,552	11/1982	Shinohara et al.			
	4,507,675	03/1985	Fujii et al.			
JMM	4,602,678	07/1986	Fick			
	4,628,406	12/1986	Smith et al.			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JMM	52-77684	06/1977	Japan				
	55-128835	10/1980	Japan				
	56-4241	01/1981	Japan				
	60-94744	05/1985	Japan				
JMM	60-178651	09/1985	Japan				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
<div style="text-align: center;">JMM</div>	Crum, <i>Trends in Advanced Component Technologies</i> , Electronic Packaging & Production (January 1998) pages 48-53.	
<div style="text-align: center;">JMM</div>	Lawing, <i>Vacuum Dispensing of Encapsulants for <math>\mu</math>BGA Manufacturing</i> , Electronic Packaging & Production (February 1998 ), pages 87-91.	
<div style="text-align: center;">JMM</div>	Markstein, <i>Cooling Techniques for Today's Electronics</i> , Electronic Packaging & Production (November 1997), pages 78-82.	

EXAMINER  <div style="text-align: center;"> </div>	DATE CONSIDERED  <div style="text-align: center;"> </div>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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				Applicant <b>David R. Hembree</b>		Filing Date <b>March 3, 2004</b>	
				Group Art Unit <del>Unknown</del> <b>2813</b>			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JMM	4,642,671	02/1987	Rohsler et al.	X	X		
	4,801,998	01/1989	Okuaki				
	4,862,245	08/1989	Pashby et al.				
	4,873,615	10/1989	Grabbe				
	4,931,852	06/1990	Brown et al.				
	4,942,140	07/1990	Ootsuki et al.				
	4,961,107	10/1990	Geist et al.				
	4,984,059	01/1991	Kubota et al.				
	5,051,275	09/1991	Wong				
	5,071,787	12/1991	Mori et al.				
	5,081,067	01/1992	Shimizu et al.				
	5,101,465	03/1992	Murphy				
JMM	5,108,955	04/1992	Ishida et al.				

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JMM	62-109326	05/1987	Japan				
	62-115834	05/1987	Japan				
	62-261133	11/1987	Japan				
JMM	2-306639	12/1990	Japan				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
JMM		Smith, <i>Packaging to Beat the Heat</i> , Semiconductor International (November 1997), pages 73-76.
JMM		<i>Die Attach Products</i> , Johnson Matthey Electronics, Product Data (07/01/94), 6 pages.
JMM		<i>Product Bulletin</i> , Dexter Electronic Materials Division (undated), 2 pages.

EXAMINER 	DATE CONSIDERED <b>11/27/04</b>
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		Applicant <b>David R. Hembree</b>		<b>10/792044</b>	
		Filing Date <b>March 3, 2004</b>		Group Art Unit <b>2813 Unknown</b>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JMM	5,120,665	06/1992	Tsukagoshi et al.				
	5,144,747	09/1992	Eichelberger				
	5,173,764	12/1992	Higgins, III				
	5,175,613	12/1992	Barker, III et al.				
	5,182,173	01/1993	Swei				
	5,184,208	02/1993	Sakuta et al.				
	5,194,930	03/1993	Papathomas et al.				
	5,201,866	04/1993	Mok				
	5,218,759	06/1993	Juskey et al.				
	5,227,663	07/1993	Patil et al.				
	5,233,220	08/1993	Lamson et al.				
	5,239,200	08/1993	Messina et al.				
	5,249,101	09/1993	Frey et al.				
	JMM	5,252,853	10/1993	Michii			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JMM	4-157758	05/1992	Japan				
	6-252299	09/1994	Japan				
JMM	522563	09/1992	Europe				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

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				Applicant <b>David R. Hembree</b>		Filing Date <b>March 3, 2004</b>	
				Group Art Unit <b>Unknown</b>		<b>2813</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	5,286,679	02/1994	Farnworth et al.			
	5,289,346	02/1994	Carey et al.			
	5,291,064	03/1994	Kurokawa			
	5,304,842	04/1994	Farnworth et al.			
	5,311,060	05/1994	Rostoker et al.			
	5,344,795	09/1994	Hashemi et al.			
	5,358,598	10/1994	Chiu			
	5,358,904	10/1994	Murakami et al.			
	5,358,906	10/1994	Lee			
	5,371,044	12/1994	Yoshida et al.			
JMM	5,378,924	01/1995	Liang			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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Applicant <b>David R. Hembree</b>				Filing Date <b>March 3, 2004</b>		Group Art Unit <b>2813</b> <del>Unknown</del>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JMM	5,379,186	01/1995	Gold et al.				
	5,379,187	01/1995	Lee et al.				
	5,379,191	01/1995	Carey et al.				
	5,385,869	01/1995	Liu et al.				
	5,387,554	02/1995	Liang				
	5,394,303	02/1995	Yamaji				
	5,396,403	03/1995	Patel				
	5,432,127	07/1995	Lamson et al.				
	5,432,675	07/1995	Sorimachi et al.				
	5,434,105	07/1995	Liou				
	JMM	5,436,203	07/1995	Lin			


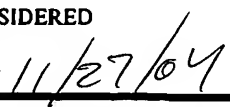
  

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OTHER DOCUMENTS		
(Including Author, Title, Date, Pertinent Pages, Etc.)		

EXAMINER <div style="font-size: 1.5em; text-align: center;">  </div>	DATE CONSIDERED <div style="font-size: 1.5em; text-align: center;">  </div>
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Filing Date <b>March 3, 2004</b>	Group Art Unit <b>Unknown</b> <span style="float: right;"><b>2813</b></span>								

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JHM</i>	5,438,216	08/1995	Juskey et al.			
	5,441,684	08/1995	Lee			
	5,450,283	09/1995	Lin et al.			
	5,455,200	10/1995	Bigler et al.			
	5,455,457	10/1995	Kurokawa			
	5,461,255	10/1995	Chan et al.			
	5,468,995	11/1995	Higgins, III			
	5,477,082	12/1995	Buckley, III et al.			
	5,488,254	01/1996	Nishimura et al.			
	5,489,538	02/1996	Rostoker et al.			
	5,489,801	02/1996	Blish, II			
	<i>JHM</i>	5,541,446	07/1996	Kierse		

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

<b>EXAMINER</b>  <div style="text-align: center;"><i>S. H. Hembree</i></div>	<b>DATE CONSIDERED</b>  <div style="text-align: center;"><i>4/27/04</i></div>
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Applicant <b>David R. Hembree</b>		Filing Date <b>March 3, 2004</b>		Group Art Unit <del>Unknown</del> <b>2813</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	5,552,635	09/1996	Kim et al.			
	5,579,573	12/1996	Baker et al.			
	5,594,282	01/1997	Otsuki			
	5,596,231	01/1997	Combs			
	5,598,034	01/1997	Wakefield			
	5,604,376	02/1997	Hamburgen et al.			
	5,610,442	03/1997	Schneider et al.			
	5,641,997	06/1997	Ohta et al.			
	5,652,461	07/1997	Ootsuki et al.			
	5,656,857	08/1997	Kishita			
JMM	5,659,952	08/1997	Kovac et al.			

FOREIGN PATENT DOCUMENTS							
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						YES	NO

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER  <div style="font-size: 1.5em; text-align: center;">Ex </div>	DATE CONSIDERED  <div style="font-size: 1.5em; text-align: center;">11/27/09</div>
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Applicant <b>David R. Hembree</b>		<b>10/792 244</b>			
Filing Date <b>March 3, 2004</b>		Group Art Unit <b>2813</b> <del>Unknown</del>			

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JMM</i>	5,663,106	09/1997	Karavakis et al.			
	5,672,548	09/1997	Culnane et al.			
	5,681,757	10/1997	Hayes			
	5,701,034	12/1997	Marrs			
	5,705,851	01/1998	Mostafazadeh et al.			
	5,891,753	04/1999	Akram			
	5,898,571	04/1999	Mertol			
	5,905,638	05/1999	MacDonald, Jr. et al.			
	5,909,056	06/1999	Mertol			
	5,931,222	08/1999	Toy et al.			
<i>JMM</i>	5,969,947	10/1999	Johnson et al.			
	6,081,027	06/2000	Akram			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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EXAMINER <i>E. J. Hembree</i>	DATE CONSIDERED <i>11/27/04</i>
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Applicant <b>David R. Hembree</b>				Filing Date <b>March 3, 2004</b>		Group Art Unit <del>Unknown</del> <b>2813</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JHM	6,117,797	09/2000	Hembree			
	6,121,680	09/2000	Chiu et al.			
	6,190,945	02/2001	Akram			
	6,229,204	05/2001	Hembree			
	6,232,152	05/2001	DiStefano et al.			
	6,249,436	06/2001	Bollesen			
	6,251,707	06/2001	Bernier et al.			
	6,263,566	07/2001	Hembree et al.			
	6,432,497	08/2002	Bunyan			
	6,432,511	08/2002	Davis et al.			
	6,432,840	08/2002	Hembree			
	6,451,709	09/2002	Hembree			
	6,534,858	03/2003	Akram et al.			
	6,534,859	03/2003	Shim et al.			
	6,596,565	07/2003	Hembree			
JHM	6,630,371	10/2003	Hembree			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <div style="font-size: 2em; font-family: cursive;">EJ MHA</div>	DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">11/27/04</div>
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1
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**Complete if Known**

Application Number	10/792,244
Filing Date	March 3, 2004
First Named Inventor	David R. Hembree
Group Art Unit	2811
Examiner Name	Unknown
Attorney Docket Number	2269-3592.10US (97-0321.10/US)

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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